DCPP Long Term Seismic Program Update
Evaluation of Updated Seismic Hazard Information

Flowchart A - Overview

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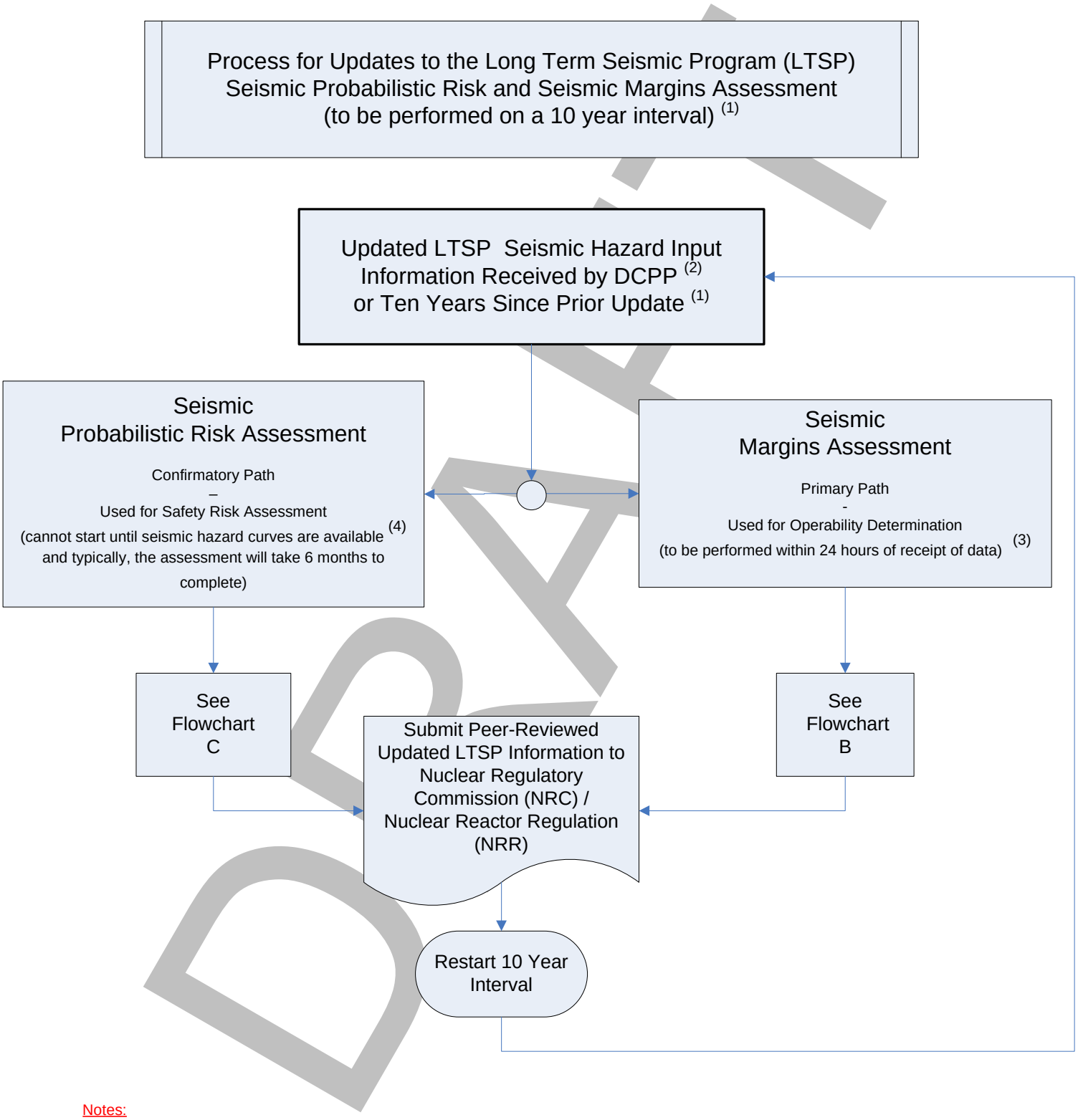
(03-29-2011)



Notes:

(1) Update to be performed at less than a 10 year interval if significant new information becomes available. The start of each interval to be based on submittal date of prior update.

(2) Seismic Hazard Input is developed by the PG&E Geosciences Department. Types of input include seismic hazard curves, deterministic ground motion response spectrum, source characterization, ground motion spectral shapes, etc.

(3) Seismic Margins Assessment based on deterministic ground motion response spectrum.

(4) Seismic Hazard Curves are typically available within 30 days.

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Flowchart B – Seismic Margins Assessment

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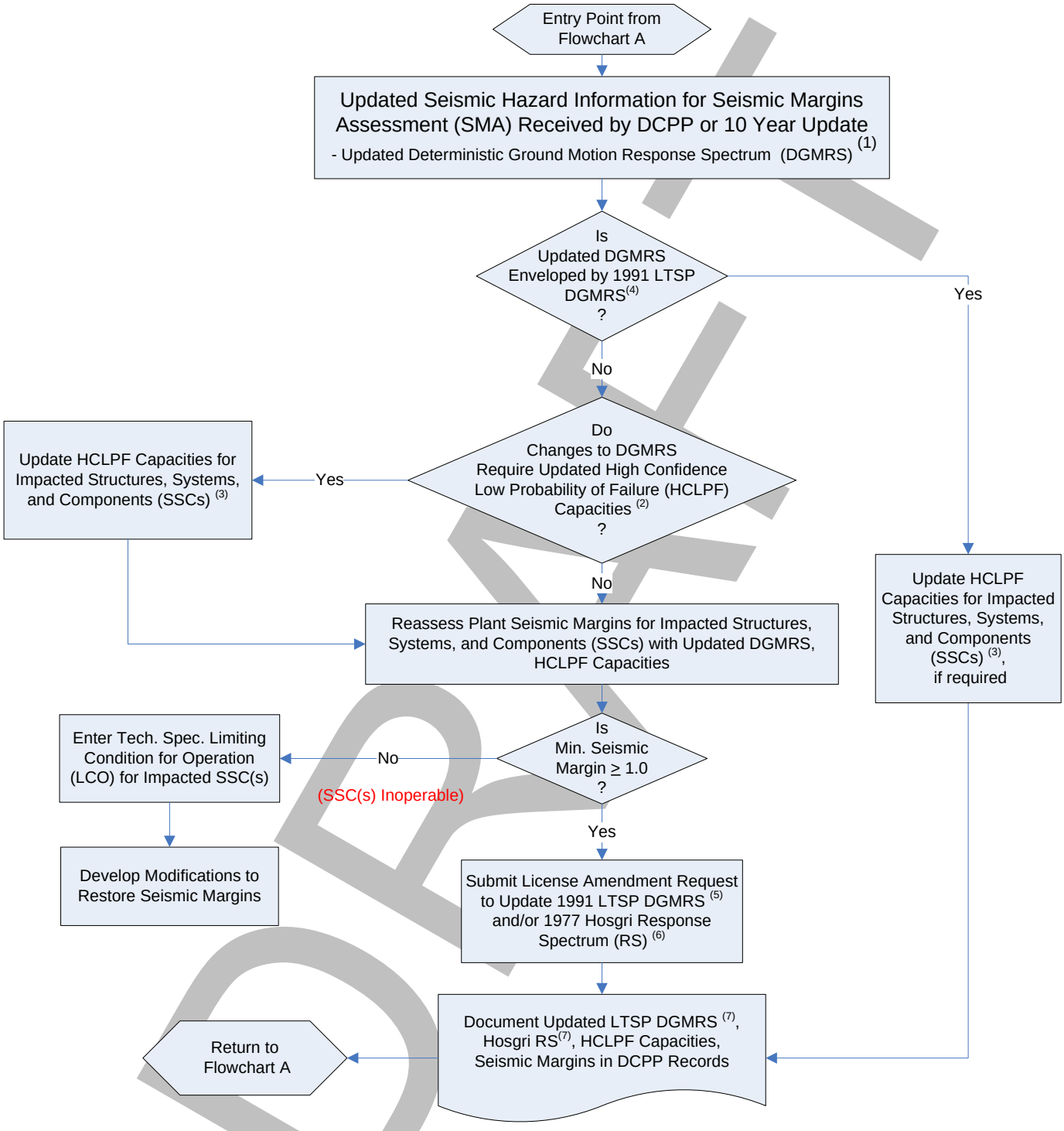

Notes:

(1) The Deterministic Ground Motion Response Spectrum (DGMRS) is developed by the PG&E Geosciences Department in accordance with peer- reviewed methodologies.

(2) Changes in the DGMRS may impact the in-structure response spectra, which are an input to the High Confidence Low Probability of Failure (HCLPF) capacities of Structures, Systems, and Components (SSCs).

(3) The HCLPF capacities are based on the methodologies defined in EPRI NP-6041-SL.

(4) The 1991 LTSP DGMRS is that defined in the 1988 LTSP Final Report, as modified by the NRC in SSER-34 (1991).

(5) Update required if the Updated DGMRS exceeds the 1991 LTSP DGRMS at any frequency.

(6) Update required if the Updated DGMRS exceeds the design basis 1977 Hosgri Earthquake response spectrum, as defined in in the DCPP Updated Final Safety Analysis Report, Section 2.5, at any frequency

(7) The 1991 LTSP DGMRS and/or the 1977 Hosgri RS may be updated based new information subsequent to NRC approval of a License Amendment.

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Flowchart C – Seismic Probabilistic Risk Assessment

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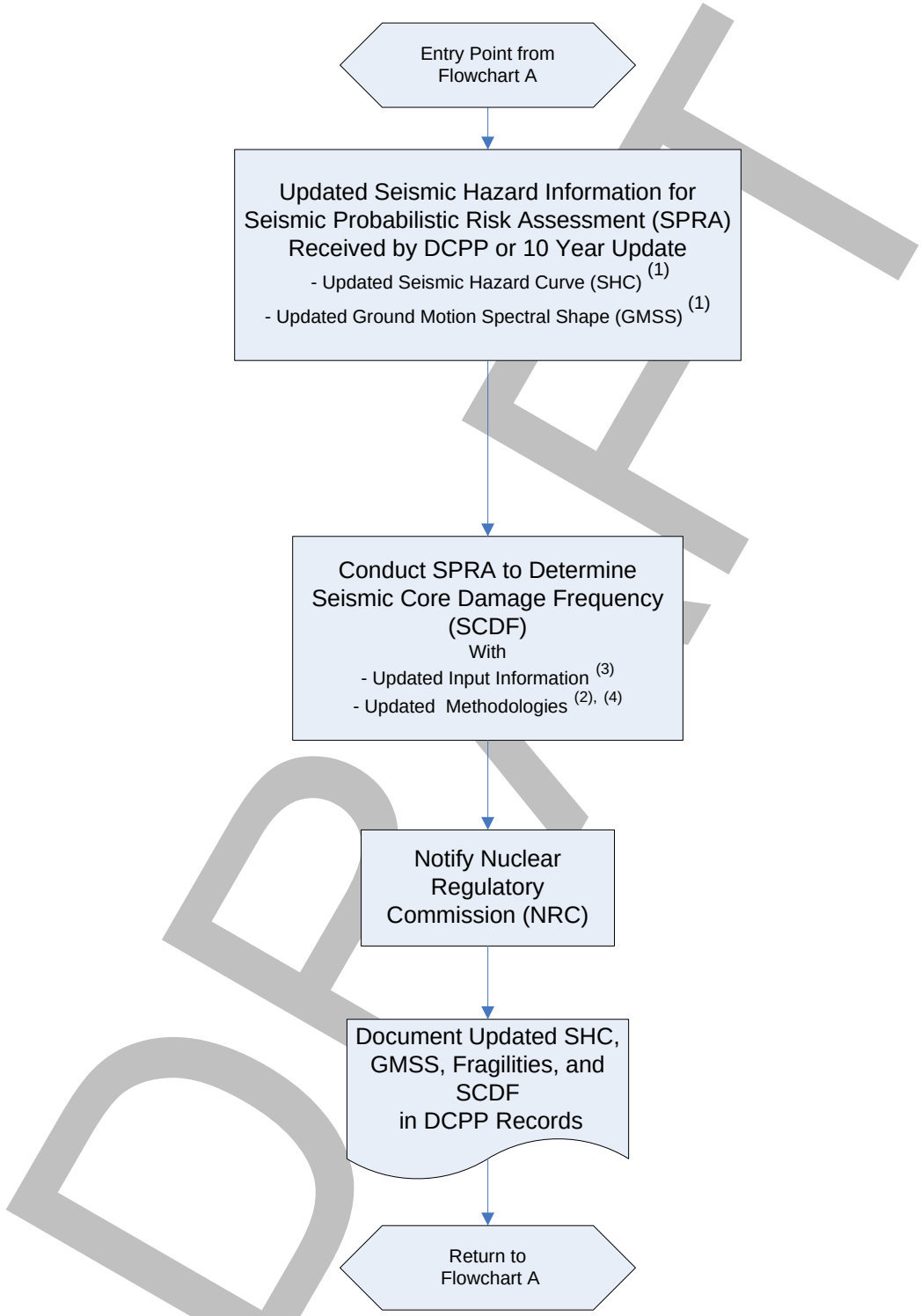

Notes:

(1) The Seismic Hazard Curves (SHC) and Ground Motion Spectral Shape (GMSS) are developed by the PG&E Geosciences Department in accordance with peer- reviewed methodologies.

(2) The Seismic Probabilistic Risk Assessment (SPRA) will be based on Capability Category II of ASME/ANS RA-Sa-2009, as modified by Reg. Guide 1.200.

(3) Input information includes seismic hazard curves, ground motion spectral shape, and fragilities.

(4) Fragilities are based on the shape of the ground motion spectral shape and peer-reviewed fragility calculation methods (ASME/ANS RA-Sa-2009, as modified by Reg. Guide 1.200, EPRI TR-103958, 1002988, 1019200)